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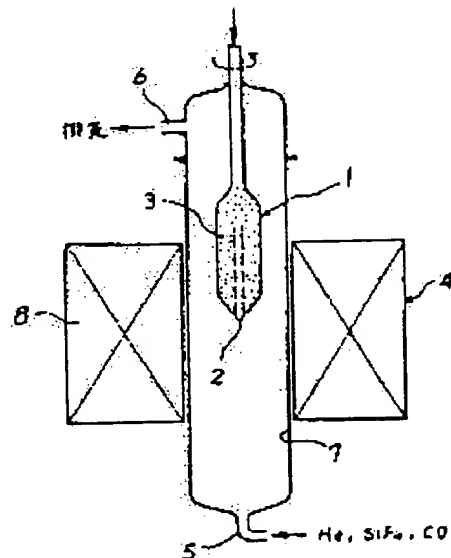
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(54) PRODUCTION OF BASE MATERIAL FOR OPTICAL FIBER

(57)Abstract:

PURPOSE: To produce the titled base material free from a structural fault, by forming at least one of the dehydrating atmosphere of a gaseous compd. contg. fluorine and the transparent vitrifying atmosphere by means of the reducing atmosphere and introducing a porous glass body therinto and subjecting it to dehydration and transparent vitrification.

CONSTITUTION: A porous glass body 1 for an optical transmission body which consists of a porous glass layer 2 for a core and a porous glass layer 3 for a cladding and has SiO₂ as an essential component is inserted into a reactor core pipe 7 provided with a heating oven 4 and an electric heater 8 to the outer circumference. After the inside of the reactor core pipe 7 is regulated to the dehydrating atmosphere incorporating both a gaseous compd. contg. fluorine selected from among SiF₄, CF₄, SF₆, CClF₃, CCl₃F and reducing gas selected from among CO, SO, NO, H₂, and D₂ and the porous glass body is heated with the heater 8 and dehydrated, this is subjected to transparent vitrification in the transparent vitrifying atmosphere contg. the above-mentioned reducing gas if necessary.



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